

Title (en)
AN INDUCTION HEATING COOKER

Title (de)
INDUKTIONSHERD

Title (fr)
CUISEUR À INDUCTION

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Application
EP 12769110 A 20121008

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Abstract (en)
[origin: WO2013064331A1] The present invention relates to an induction heating cooker (1) comprising a bridge rectifier (3) that converts the alternative current to direct current, a DC-line inductor (4) and a DC-line capacitor (5) disposed at the output of the bridge rectifier (3), a parallel resonant circuit (8) having an induction coil (6) that provides the vessel (K) placed thereon to be heated with the magnetic field it generates and a resonant capacitor (7) connected in parallel to the induction coil (6), a power switch (9) that drives the parallel resonant circuit (8), a collector node (10) whereon the resonant voltage (Vce) is generated in the open position of the power switch (9) during the non-conducting time (Toff), a control unit (13) that regulates the operation of the power switch (9) and a drive circuit (12) that provides the power switch (9) to be driven with the drive voltage (Vge), and wherein the presence of the vessel (K) on the induction coil (6) and the characteristic features thereof are detected in case of variable AC mains voltage conditions.

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Citation (search report)
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Cited by
CN107155229A; CN107027206A; CN107027204A

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